

BenQ S11

Digital Projector Camcorder User Manual

Welcome

<Notes>

Table of Contents

1	OVERALL INTRODUCTION	9
1.1	SYSTEM REQUIREMENTS.....	9
1.2	ACCESSORIES.....	10
1.3	EXTERNAL VIEW	11
1.4	INITIAL SET UP	12
1.4.1	<i>Insert SD Card</i>	12
1.4.2	<i>Load Battery</i>	12
1.4.3	<i>Charging Battery</i>	13
1.5	CHARGING THE BATTERY.....	14
1.6	FIRST TIME USAGE SETTING	15
1.5.1	<i>Language</i>	15
1.5.2	<i>Date/Time</i>	15
1.7	QUICK ACCESS TO VIDEO, PLAYBACK, AND PHOTO	16
2	VIDEO MODE.....	17
2.1	FOR VIDEO SHOOT	17
2.2	FOR VIDEO PLAYBACK	17
2.2.1	<i>Video Playback</i>	17
2.2.2	<i>Video Playback Menu</i>	19
2.3	PHOTO SHOOT DURING VIDEO PLAYBACK	21
2.4	FAST OR SLOW MOTION FORWARD / REWIND	21
2.5	PROJECTOR FOR VIDEO.....	22
2.6	FOR VARIOUS VIDEO SETUP	23
3	PHOTO MODE	24
3.1	FOR PHOTO SHOOT	24
3.2	FOR PHOTO REVIEW	25
3.2.1	<i>Photo Review</i>	25
3.2.2	<i>Photo Review Menu</i>	27

3.3	PROJECTOR FOR PHOTO.....	30
3.4	FOR VARIOUS PHOTO SETUP	31
4	SETUP MENU.....	32
4.1	GO INTO THE SETUP MENU.....	32
4.2	SETUP MENU	32
4.2.1	<i>To change NTSC/PAL TV setting.....</i>	32
4.2.2	<i>File Number.....</i>	32
4.2.3	<i>Date/Time Settings</i>	33
4.2.4	<i>Formatting of SD memory card</i>	33
4.2.5	<i>Restore Factory Default.....</i>	33
4.2.6	<i>LCD brightness.....</i>	33
4.2.7	<i>Time/ Date Stamp for Photos/Videos</i>	33
4.2.8	<i>Auto Power Off.....</i>	34
4.2.9	<i>Language.....</i>	34
4.2.10	<i>Flicker</i>	34
4.2.11	<i>Sound Volume</i>	34
4.2.12	<i>Start Up Display Logo.....</i>	34
4.2.13	<i>Digital Zoom Setting (Optional).....</i>	35
4.2.14	<i>EV value Extra Optional Functions.....</i>	35
5	PC AND TV CONNECTION	36
5.1	CONNECTING TO THE COMPUTER	36
5.2	CONNECTING TO A STANDARD TV / HD TV.....	37
5.3	INSTALLING THE SOFTWARE	37
6	EDITING SOFTWARE	38
7	APPENDIX	39
7.1	SPECIFICATIONS (CAMCORDER)	39
7.2	SPECIFICATIONS (PROJECTOR)	40
7.3	TROUBLESHOOTING	41

Preface

Congratulations on your purchase of this advanced camcorder (digital video camera). Ensure that you read this manual carefully and keep it in a safe place for future reference.

About This Manual

This manual is designed to assist you in using your new camcorder. All information presented is as accurate as possible but is subject to change without notice.

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Safety Warning and Notice

Before operating the camcorder, please make sure that you read and fully understand the content in this section. If you ignore and violate all safety warning notices indicated in this section, the camcorder warranty may be void. Meanwhile, not only the camcorder but also you and all other people and things around you may be severely damaged, injured, or even placed in danger of death.

For your safety

1. Do not attempt to charge any other battery with this camcorder.
2. Operate the power supply only on even surfaces, without any cover. Air circulation around the product must be always given. The maximum ambient temperature is 40 °C.
3. Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
4. Keep the camcorder and its accessories out of the reach of babies, toddlers, and children. In particular, small parts such as memory cards and batteries could be easily dismantled and swallowed by them.
5. Use only the original accessories to avoid possible risks to health and property, and thus meet all related legal regulations.
6. Do not dismantle the camcorder under any circumstances.
7. When using the flash, do not go too close to human eyes (particularly for babies, toddlers, and children) or animal eyes. Otherwise, when the flash fires, the light may cause damage to human eyes or irritate animals.

8. Batteries could explode, for instance. All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys or beaded chains touch exposed terminals. The material may complete an electrical circuit and become quite hot. Exercise care in handling any batteries, particularly when placing it inside your pocket, purse, or other container with metal objects. Do not dispose of batteries in fire as they may explode.
9. To prevent electric shock, do not attempt to disassemble or repair your camcorder by yourself.
10. Some camcorder models accept non-rechargeable batteries. When using these batteries, do not charge them. Otherwise, dangers such as explosion and fire may occur.

Warranty

1. Warranty is void if damage or system failure occurred due to outside factors such as collision, fire, flood, dirt, sewage, earthquake, and other force majeure events as well as incorrect usage of electricity or use of non-original accessories.
2. It is the sole responsibility of the user if problems (such as data loss and system failure) occurred due to non-factory installed software, parts, and/or non-original accessories.
3. Do not change the camcorder. Any changes to the camcorder invalidate the warranty.

Taking care of your camcorder

1. Always keep the camcorder in a leather case or pouch for better protection against splashes, dust, and collision.

2. The only way of replacing the battery and the memory card is to open the Battery / Memory cover.
3. Dispose of unwanted batteries and camcorders as permitted by the laws in your countries.
4. Water may cause a fire or electric shock. Therefore, store your camcorder in a dry place.
5. If your camcorder becomes wet, wipe it with a dry cloth as soon as possible.
6. Salt or seawater may cause severe camcorder damage.
7. Do not drop, knock, or shake the camcorder. A rude behavior of using the camcorder may damage the internal electronic circuit board or deform the lens shape.
8. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the camcorder.
9. Finger grease may be left on the camcorder lens and will result in unclear images or videos. To avoid this problem, be sure to clean the camcorder lens before taking pictures or recording videos. You should also clean the camcorder lens on a regular basis.
10. If the lens is dirty, use a lens brush or soft cloth to clean the lens.
11. Do not touch the lens with your fingers.
12. If a foreign substance or water gets in your camcorder, please turn the power off immediately and disconnect the batteries. Next, remove the foreign substance or water and send it to the maintenance center.

13. Whenever there is data in the external memory card, you should make a backup copy to a computer or disc. So, you can have a backup solution if data loss occurs.
14. All original accessories are designed only for use with this camcorder model you purchased. Do not use these accessories with other camcorder models or camcorders of other brands to avoid unpredictable danger or damage.
15. Before initial use of a memory card, always use the camcorder to format the card first.
16. Remember to slide the write-protect tab (if available) to the unlock position. Otherwise, all data (if any) on the memory card is protected and the card cannot be edited or formatted.

Operating environment

1. Do not use or store your camcorder in the environments listed below:
 - Direct sunlight
 - Dusty places
 - Next to an air conditioner, electric heater or other heat sources
 - In a closed car that is in direct sunlight
 - Unstable locations
2. Do not use your camcorder outdoors when it is raining or snowing.
3. Do not use your camcorder in or near water.

4. The camcorder operating temperature is between 0 and 40 degrees Celsius. It is normal for the operating time to be shortened when the temperature is low.
5. The capacity of your camcorder batteries will reduce each time it is charged/emptied.
6. Storage at too high or low temperatures will also result in a gradual capacity loss. As a result, the operating time of your camcorder may be considerably reduced.
7. It is normal for the camcorder to become warm during operation, because the camcorder casing can conduct heat.

1 Overall Introduction

Please read this chapter carefully to understand the features and functions of this device. The description of this chapter also includes the description of system requirement, package contents, and hardware components.

1.1 System Requirements

This Digital Projector Camcorder requires a unit of computer with the following specifications:

- Windows® Vista / XP / 2000 operating system or Mac OS 10.3 ~10.4
- A CPU of at least the equivalent of Intel® Pentium 4 2.8GHz
- At least 512 MB of RAM
- Standard USB 1.1 connection port or higher
- At least 64MB of display card

Note: USB 1.1 allows you to transmit files to the host, but using USB 2.0 connection port could increase the transmission speed far faster.

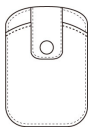
1.2 Accessories

This package should contain the following items. In case there is any missing or damaged item, please contact your dealer immediately.

① Digital Projector Camcorder



② Pouch



③ Quick guide



④ Software CD



⑤ HDMI cable



⑥ Video cable



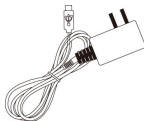
⑦ USB cable



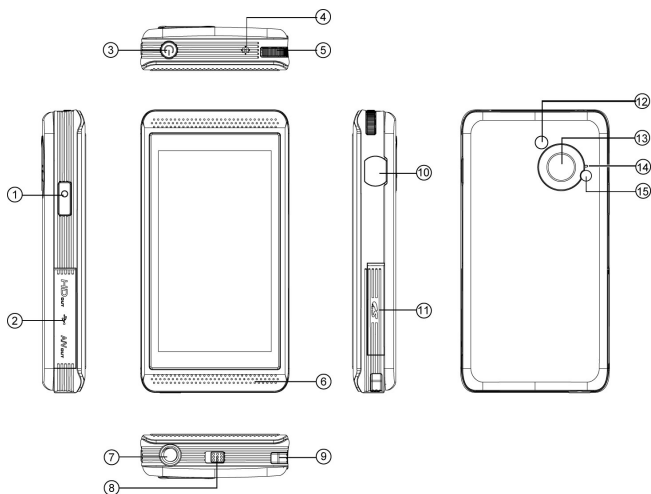
⑧ Lithium battery



⑨ Adaptor



1.3 External View



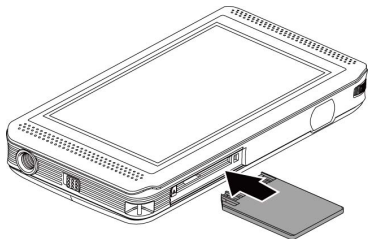
1	Recording Button	9	Hand Strap Slot
2	HDMI / USB / AV Out	10	Projector Lens
3	Power On/Off	11	SD/SDHC Memory Card Slot
4	Mic	12	Self Portrait Mirror
5	Projector Focus Adjustment	13	Video Camera Lens
6	Speaker	14	LED indicator
7	Tripod Mount	15	LED Torch (Assist LED light)
8	Battery Cover Lock		

1.4 Initial Set Up

1.4.1 Insert SD Card

Open the SD card cover and insert an SD card. Make sure the “gold pin” is facing the right way as illustrated.

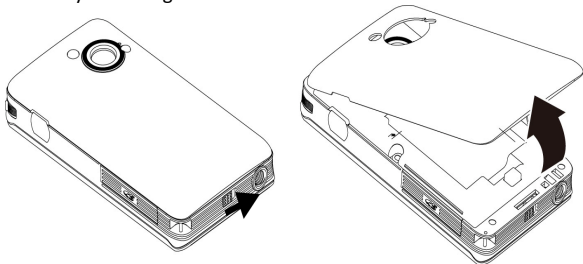
Note: Do not remove or insert SD card when the power of the Digital Projector Camcorder is on to avoid damaging files.



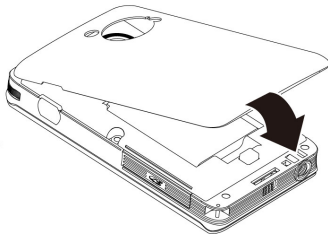
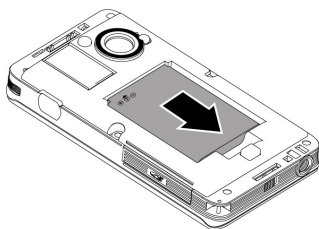
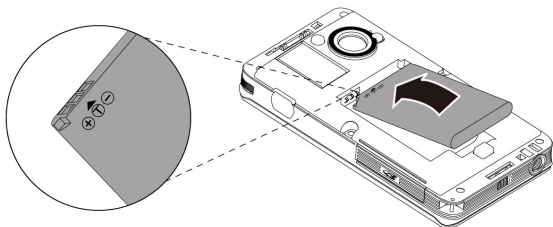
1.4.2 Load Battery

Please use only battery provided or recommended by the manufacturer or dealer. This package is supplied with a Lithium battery.

1. Slide the battery cover switch to open the cover and Insert the battery according to the illustration.



2. Make sure the gold pin connection is on the correct side of the battery compartment.
3. Insert the cover hook into the recess and gently push the cover until it fully locks into place.



1.4.3 Charging Battery

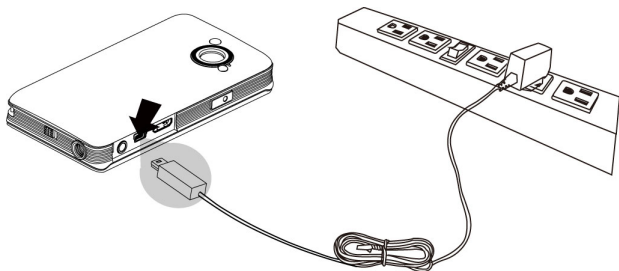
You can use the adaptor attached to charge the lithium-ion battery. Just insert the battery into the Digital Projector Camcorder and connect the adaptor to the camcorder and a power outlet. (You can also connect to a computer via a USB cable.)

Battery charging status:

- Red light – Battery is charging.
- Light off – Battery charging is done. (A full charge takes about 2 hours and 30 minutes).

1.5 Charging the Battery

You can use the adaptor attached to charge the lithium battery. Insert the lithium battery into the Digital Video Camera and connect to the cable of the adaptor.



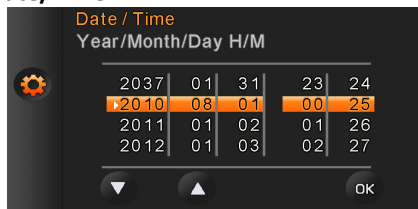
1.6 First Time Usage Setting

1.5.1 Language



Use ◀ & ▶ to go to various pages for the language selection, Press on the language icon (Example: **[ENG]**) to select and confirm.

1.5.2 Date/Time



- Press on the relevant icon (example: **[2010]**) to high light the setting.
- Press ▲ or ▼ to adjust the value.
- Press OK (at the bottom right corner) to confirm.

Note 1: For other settings; please refer to the **[SET UP MENU]** section in this manual for details.

Note 2: For the settings in Video and Photo mode please refer to either **[Video Mode]** or **[Photo Mode]** section in this manual for details.

1.7 Quick Access to Video, Playback, and Photo

1. Press  to enter the Video mode.
2. Press  again to start video recording.
3. Press  again to stop video recording.



1. Press  to enter the Photo mode.
2. Press  to capture an image.

Press  to enter the playback mode.

2 Video Mode

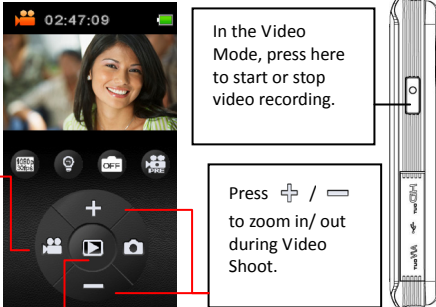
2.1 For Video Shoot

- Press  to go into Video Mode.
- Press  again to start video recording.
- Press  again to stop video recording.

Press  for video playback.

In the Video Mode, press here to start or stop video recording.

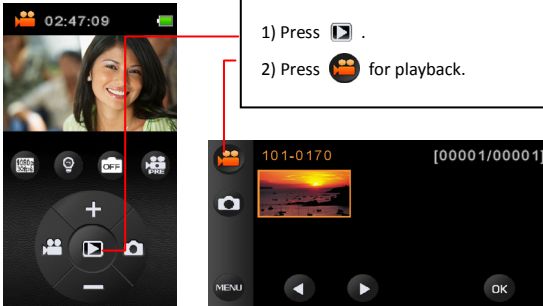
Press  /  to zoom in/ out during Video Shoot.

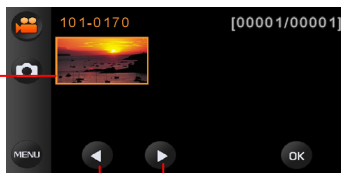


2.2 For Video Playback

2.2.1 Video Playback

- 1) Press .
- 2) Press  for playback.



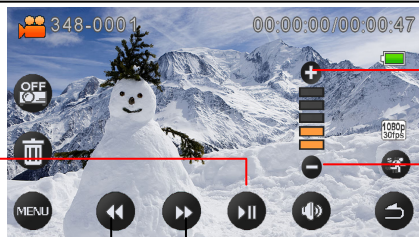


3) Use ◀ & ▶ to go to various pages.

4) Press the file to select the video clip you wish to review.

5) Press ▶|| to replay your selected clip.

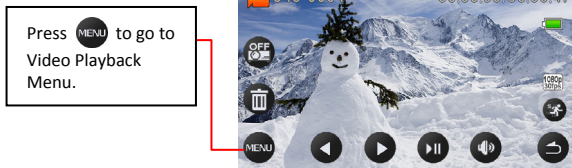
6) Press 🔊, and use + & - to adjust volume.



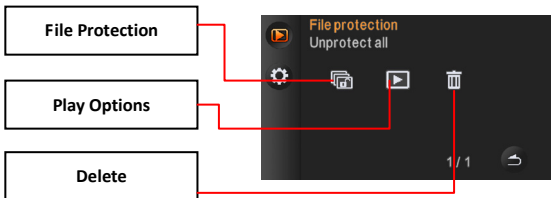
7) Use ◀◀ & ▶▶ to fast forward and rewind.

2.2.2 Video Playback Menu

Press  for other menu option for video playback.



You will find the following 3 options.



1. File Protection

Press the **[File Protect icon]** to go into the Protect menu selections. You will have 4 options to select as follows:

- Protect One Video Clip
- Unprotect One Video Clip
- Protect All Video Clips
- Unprotect All Video Clips

Press on the relevant icon to select, press  to confirm or  to cancel.

2. Play Options

Press **[Play Options icon]** to go into the Play Options menu selections. You will have 4 options to select as follows:

- **Play One Video Clip**
- **Play All Video Clips**
- **Repeat One Video Clip**
- **Repeat All Video Clips**

Press on the relevant icon to select, press  to confirm or  to cancel.

3. Delete

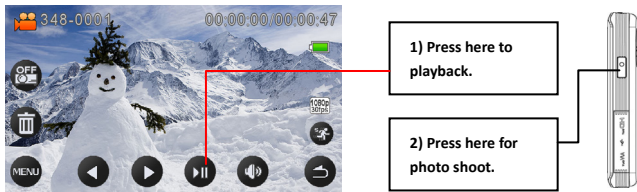
Press **[Delete icon]** to go into the Delete menu selections, you will have 3 options to select as follows:

- **Delete One Video Clip**
- **Delete All Video Clips**
- **Delete from Thumbnail View**

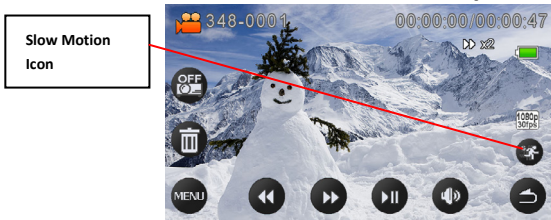
Press on the relevant icon to select, press  to confirm or  to cancel.

2.3 Photo Shoot During Video Playback

To take a photo from your video clip, simply press the recording button during your video playback as follows:



2.4 Fast or Slow Motion Forward / Rewind



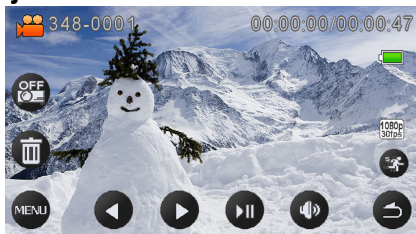
(1) For Fast Motion:

Press **⏮** to fast forward and **⏭** to rewind during playback. Each time you press. You can change the play speed by 2X, 4X, 8X, 16 X, 32X, or 64X.

(2) For Slow Motion:

Press **[Slow Motion Icon]**. Then, press **⏮** to slow forward and **⏭** to rewind during playback. Each time you press, you can change the play speed by 1/2X, 1/4X, 1/8X, 1/16X, 1/32X, or 1/64X.

2.5 Projector for Video



Press on  to turn on the projector. You will have 3 options to choose from.

-- Low Brightness 

-- High Brightness 

-- Off Projector 

Use the projector focus adjustment to set the projector focus.

Notes:

1. When [Low Brightness] or [High Brightness] is selected, you can click the icon  (on the right) to adjust the focus. Here, you will see the "BenQ" text on the screen. Now you can move the projector focus adjustment until you can see the "BenQ" text clearly (the focus range is correct).
2. Once the projector is set to High Brightness, after several minutes the projector might be automatically switched to Low Brightness (and further switching off the projector) if the surrounding temperature is very high (30 degrees Celsius or above). This is to protect the projector from overheating and is not a malfunction.

2.6 For Various Video Setup

You can press on the 4 icons on the screen to change the various settings for your video shoot:

Video Resolution

Press the **[Video Resolution Icon]** to adjust the Video Resolution. You have 5 options as follows:

 FHD 1080p @ 30fps (1920 x 1080)

 HD 720p @ 60fps (1280 x 720)

 HD 720p @ 30fps (1280 x 720)

 WVGA 480 @ 60fps (848 x 480)

 WVGA 480 @ 30 fps (848 x 480)

LED Torch (Assist LED light)

Press **[LED icon]** to turn on or off the LED Torch (Assist LED light).

Shooting Mode

Press **[Shooting Mode icon]** to change the different Shooting Mode. You have the following options:

[Auto] , **[Night]** , **[Sports]** , **[Landscape]** ,

[Portrait] , **[Sunset]** , **[Sand or Snow]** ,

[Flower] , **[Firework]** , or **[Aquarium]** .

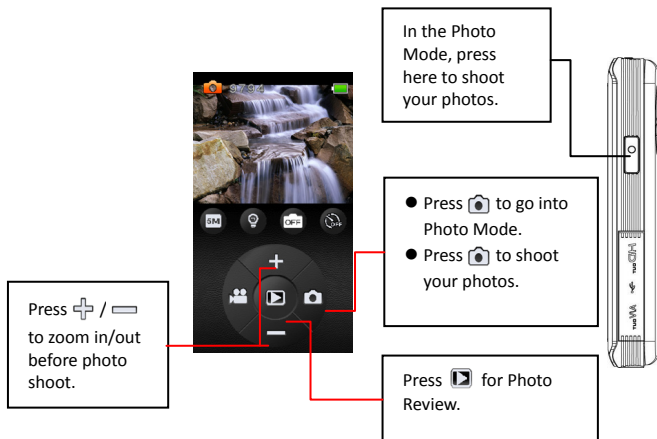
Pre-Recording

Press **[Pre-Recording icon]** to turn on/off the function. This will set the device to pre-record 3 sec before you start the actual video shoot.



3 Photo Mode

3.1 For Photo Shoot

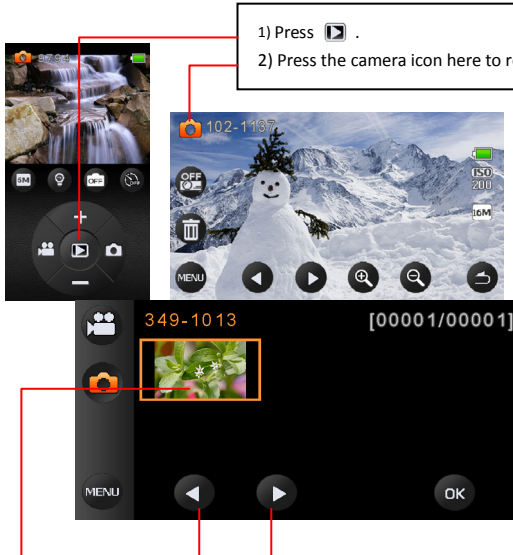


3.2 For Photo Review

3.2.1 Photo Review

1) Press  .

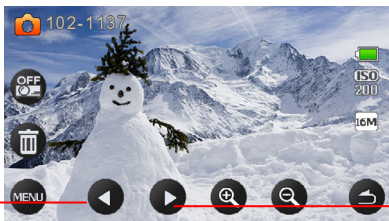
2) Press the camera icon here to review photos.



3) Use  &  to go to the various pages.

4) Press the file to select the photos you wish to review.

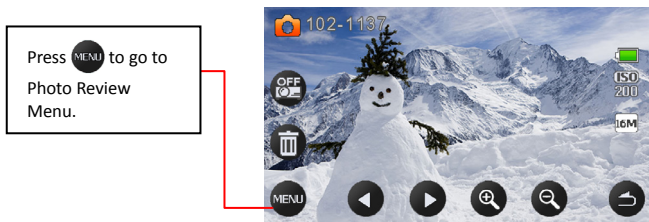
5) Use ◀ for the previous or ▶ for the next photo.



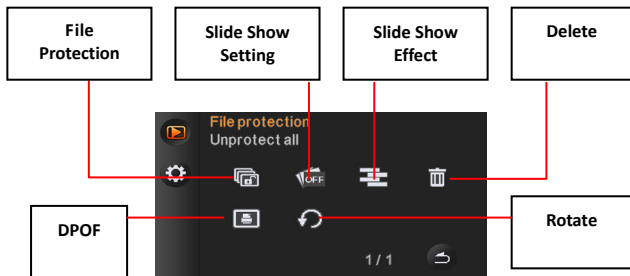
6) Use 🔍 & 🔍 to zoom in/out of your photo. After you press 🔍 to enlarge the photo, you can use ◀ , ▶ , ▲ and ▼ to manipulate the image further.

3.2.2 Photo Review Menu

Press **[Menu]** for other menu option for photo review.



You will find the following 6 options:



1. File Protection

Press the **[File Protection icon]** to go into the Protect menu selections. You will have 4 options to select as follows:

- **Protect One Photo**
- **Unprotect One Photo**
- **Protect All Photos**
- **Unprotect All Photos**

Press on the relevant icon to select, press  to confirm or  to cancel.

2. Slide Show Setting

Press **Slide Show Setting** icon to go into the Slide Show Setting menu selections. You have 3 options to select as follows:

- **Off**
- **1 second interval**
- **3 second interval**

Press on the relevant icon to confirm.

3. Slide Show Effect

Press **[Slide Show Effect icon]** to go into the Slide Show Effect menu selections. You have 2 options to select as follows:

- **Fading**
- **Flying**

Press on the relevant icon to confirm.

4. Delete

Press **[Delete icon]** to go into the Delete menu selections. You have 3 options to select as follows:

- Delete Single Photo
- Delete All Photos
- Delete from Thumbnail View

Press on the relevant icon to select, press  to confirm or  to cancel.

5. DPOF (Photos)

Press **[DPOF icon]** to go into the DPOF menu selections. You have 4 options to select as follows:

- DPOF One photo file
- DPOF all photo files
- Reset One photo file
- Reset DPOF all photo files

Press on the relevant icon to select, press  to confirm or  to cancel.

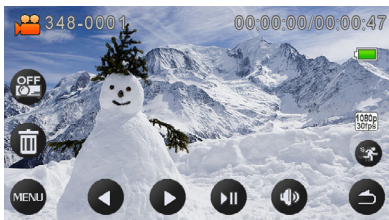
6. Rotate

Press **[Rotate icon]** to go into the Rotate menu selections. You have 2 options to select as follows:

- Left 90 Degree
- Right 90 Degree

Press on the relevant icon to confirm.

3.3 Projector for Photo



Press on **OFF** to turn on the projector. You will have 3 options to choose from.

- High Brightness **HIGH**
- Low Brightness **LOW**
- Off Projector **OFF**

Then use the projector focus adjustment to set the projector focus.

3.4 For Various Photo Setup

You can press on the 4 icons on the screen to change the various settings for your photo shoot:

Photo Resolution

Press **[Photo Resolution Icon]** to adjust the Photo Resolution. You have 4 options as follows:

16M 16MP (4608 x 3456; interpolation)

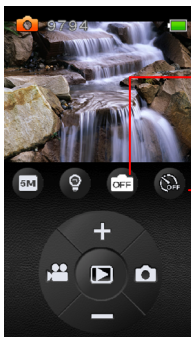
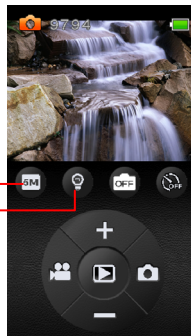
5M 5MP (2592 x 1944)

3:2 3:2 (2592 x 1728)

16:9 16:9 (2592 x 1458)

LED Torch (Assist LED light)

Press **[LED icon]** to turn on or off the LED Torch (Assist LED light).



Shooting Mode

Press **[Shooting Mode icon]** to change the different Shooting Mode. You have the following options:

[Auto] **[Night]** , **[Sports]** , **[Landscape]** ,

[Portrait] , **[Sunset]** , **[Sand or Snow]** ,

[Flower] , **[Firework]** , or **[Aquarium]** .

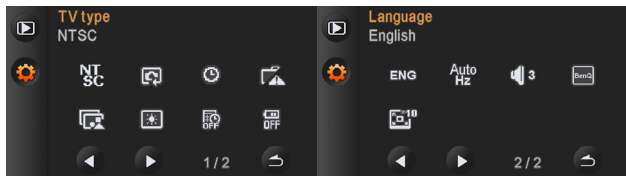
Drive mode

Press the Drive mode Icon to set up the photo shoot timer with the following option: **Off / 2sec/ 10 sec.**

4 Setup Menu

4.1 Go into the SETUP menu

Press > [Source] > [MENU] > Setup icon to go into the SETUP menu page.



Use [Left Arrow] & [Right Arrow] to go to different page of the SETUP menu (2 pages).

4.2 Setup Menu

(a) Page 1 of 2

4.2.1 To change NTSC/PAL TV setting

Press the [NTSC/PAL icon] for selection.

Press the relevant icon to choose between [NTSC] and [PAL].

4.2.2 File Number

Press the [File Number icon] for selection.

Press [Reset] to reset all file numbers to 0001 (For both video & photos).

Press [123] to set up default for file number.

4.2.3 Date/Time Settings

Press the **[Date/Time Setting icon]** to set the date/time.

Press on the relevant icon to High light the setting (Example [2010])

Use  or  icon to adjust the value.

Press  (at the bottom right corner) to confirm.

4.2.4 Formatting of SD memory card

Press the **[SD Card icon]** for selection.

Press  to cancel or  to format your memory card.

Note: All files in the SD card will be deleted upon formatting, please save your files on your PC or lap top before formatting.

4.2.5 Restore Factory Default

Press the **[Restore Factory Default icon]** for selection.

Press  to cancel or  to restore factory default settings.

4.2.6 LCD brightness

Press the **[LCD brightness icon]** for selection.

Press on the relevant icons to choose between **Low / Medium / High**.

4.2.7 Time/ Date Stamp for Photos/Videos

Press the **[Time/ Date Stamp icon]** or selection.

Press on the relevant icon to choose between **[OFF] / [Date]** stamp/
[Date/Time] stamp.

4.2.8 Auto Power Off

Press the **[Auto Power Off icon]** for selection.

Press the relevant icon to choose between **OFF / 3 MIN/ 5 MIN.**

(b) Page 2 of 2

4.2.9 Language

Press the **[Language icon]** for selection.

Use  &  to go to various pages of the language selection.

Press on the language icon to select and confirm.

4.2.10 Flicker

Press the **[Flicker icon]** for selection.

Press the relevant icon to choose between **Auto / 60HZ/ 50HZ.**

4.2.11 Sound Volume

Press the **[Sound Volume icon]** for selection.

Press the relevant icon to choose between **OFF / Low/ Medium / High.**

4.2.12 Start Up Display Logo

You can use any photo you took as the start up display image for the device.

Press the **[Logo icon]** for selection.

Press the **[User Setting]** and it will bring you to the photo files you took in your device.

Press on the photo you want to use as your start up display image.

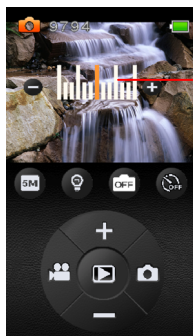
Turn off the device and restart.

4.2.13 Digital Zoom Setting (Optional)

Press the **[Digital Zoom icon]** for selection.

Press the relevant icon to choose between **x10 / MAX**.

4.2.14 EV value Extra Optional Functions



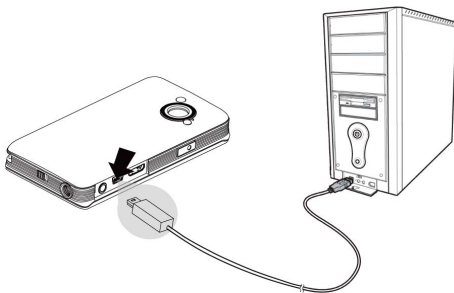
Press on the middle of the screen and press **+** / **-** to adjust the EV value of the device.

5 PC and TV Connection

5.1 Connecting to the Computer

As shown in the illustration, use the USB cable provided to connect the Digital Projector Camcorder to a computer.

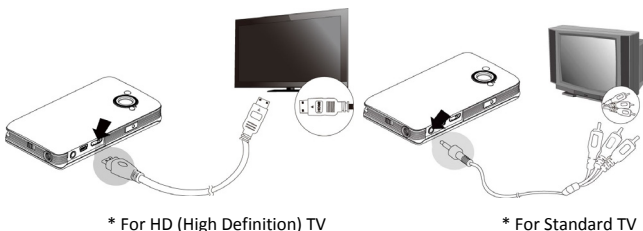
- When connecting to a computer, make sure the camcorder is turned on.
- When the camcorder is turned off, connecting it to a computer charges the lithium battery.



5.2 Connecting to a Standard TV / HD TV

As shown in the illustration, you can also use the accompanying video cable to connect the Digital Projector Camcorder to a standard TV, or you can use the HDMI cable provided to connect the Digital Projector Camcorder to an HD TV for high resolution picture display.

(When connected to a TV, the camcorder will ask whether you want to select earphone or TV mode. Please select the TV mode.)

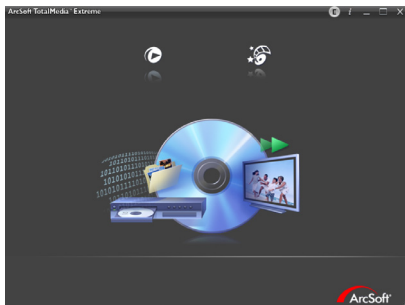


Note: Some TVs may not recognize the video format (1080p, 30fps). Please check the user manual that came with the TV for more assistance.

5.3 Installing the Software

1. Place the CD ROM attached into the CD player.
2. If the CD is not executed automatically, please use Windows File Manager to execute the Install_CD.exe file in the CD. The following screen will be displayed.
3. Press the Menu item and follow the Installation process and follow the instructions on-screen.

6 Editing Software



ArcSoft Total Media Extreme(TME)™ manages your media for you, and gives you tons of fun and exciting ways to create and share projects featuring your photo, video, and music files. Edit, enhance and add creative effects to your photos. You can

- Create your own videos or photo slide shows complete with soundtrack.
- Upload your files easily to YouTube™!
- Or share them through simple email attachments or popular photo printing.
- You can go to <http://www.arcsoft.com/> for more information.

7 Appendix

7.1 Specifications (camcorder)

Image sensor	1/3.2 inch. 5.0 mega pixels CMOS sensor
Effective pixels	5.03 Mega pixels (2592 x 1944)
Storage media	SD card and SDHC card supported.
Lens	F/2.8, f = 4.86mm
Focus range	Normal: 80cm~infinity
Still image	Format: JPEG (DPOF, EXIF) Resolution: 16MP (interpolation), 5MP, 3:2, 16:9
Video Clip	Format: H.264 (MOV)
Digital zoom	Video Mode: 100X Photo mode: 60X Playback mode: 10X
Audio	Audio for Voice Recording: ADPCM
LCD Display	3.5" Touch Panel screen (16:9)
LED Torch (Assist LED light)	Range: About 1.0m Video clip: On/Off DSC: On/Off
Exposure	-2.0 EV ~ +2.0 EV
Self-Timer	Off, 2 seconds, 10 seconds.
Interface	USB/AV/HDMI

TV output	NTSC/PAL
Shutter	Electronic shutter 2 ~ 1/8000 second
Auto Power Off	Off, 3 minutes, 5 minutes
Power Source	Lithium battery BL-5B
Dimensions	108 x 55 x 16 mm
Weight	110 g (without battery and SD card)

7.2 Specifications (projector)

Pico Projector	Resolution	320 x 240
	Brightness	4.2 ANSI lm (typical); 6.3 ANSI lm (maximum)
Projector lens module	Focus Range (mm)	250mm ~ 2500mm
	Image Diagonal Size (inch)	5" ~ 50"

7.3 Troubleshooting

Problem	Possible Cause	Solution
Can not turn on the power of Digital Projector Camcorder.	1. Battery is not inserted correctly. 2. Battery is exhausted.	1. Please insert battery correctly. 2. Replace the battery.
Camera shutdown suddenly.	1. Power saving mode already activated. 2. Battery exhausted.	1. Please turn on the power again. 2. Replace the battery.
Pictures are not stored in the memory.	Power off before storing the images.	Please change to new battery when the battery indicator indicates red (meaning low battery).
Camera shutdown when using Self-timer shooting picture.	Battery in camera is exhausted.	Change new battery.
Images are out of focus.	Object exceeds the range of focus.	Please take the picture within the focusing range and select normal or Macro Mode.
Unable to use the external memory card.	1. Memory card is Protected. 2. Memory card contains non-DCF images taken by other cameras.	1. Unlock the memory card. 2. Reformat the memory card. Please make sure to backup the file before reformatting memory card.

All buttons can not work or camera hangs.	Short circuit occurred when connecting the camera to other device.	Take out battery in the camera and re-insert again.
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Technical support

For technical assistance, free driver updates, product information, and news releases, visit the following web site:

<http://www.BenQ.com>